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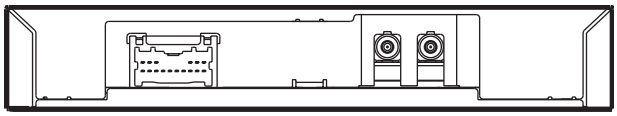
Service Manual



NISSAN
SIRIUS Satellite Radio Receiver

Model EN-1186E
(Genuine No.28051 CR910)

SPECIFICATIONS

Receive range:	2320MHz to 2332.5MHz
Power supply voltage:	13.2V
	(10.8 to 15.6V allowable)
Dimensions(mm):	178(W) x 30(H) x 130(D)

COMPONENTS

EN-1186E-A

Main unit	----------	1
Clamp	321-1026-00	4
Parts bag	----------	
Edge protector	345-5247-00	1
Seal rubber	345-5252-00	1
Urethane sheet	345-7010-00	14
Spacer	345-8276-00	1
Magic tape(Hook)	348-0105-02	2
Magic tape(Loop)	348-0106-02	2
Protect seal	348-0333-00	4
Parts bag	----------	
Mounting bracket	300-7362-03	2
Tap screw	704-5010-81	4
D-sems-hex-bolt	734-4008-31	4
Hex flange bolt	782-6016-00	1
Parts bag	----------	
lead holder	335-3847-00	4
Corrugate tube	825-1179-01	1
Bonding wire	840-0539-00	1
Parts bag	----------	
Rubber rod 4 x4	345-5304-00	1
Rubber rod 5 x4	345-5304-01	1
Rubber rod 6 x5	345-5304-02	1
Rubber rod 7 x6	345-5304-03	1
Rubber rod 8 x7	345-5304-04	1
Black tape	348-0334-00	2

NOTES

* Specifications and design are subject to change without notice for further improvement.
* We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.

To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

1. Use specified parts.
   The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.
   The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.
2. Place the parts and wiring back in their original positions after replacement or re-wiring.
   For proper circuit construction, use of insulation tubes, bonding,gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.
   If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

3. Check for safety after repair.
   Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary ploblems around the repaired spots.
   If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
4. Caution in removal and making wiring connection to the parts for the automobile.
   Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.
5. Cautions regarding chips.
   Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.
6. Cautions in handling flexible PWB
   Before working with a soldering iron, make sure that the iron tip temperature is around 270℃. Take care not to apply the iron tip repeatedly(more than three times)to the same patterns. Also take care not to apply the tip with force.
7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

EXPLANATION OF IC

052-3710-10 M30624FGMFP System Controller

1.Terminal Description

pin 1: P Power NET : O : The power supply ON signal output for NDS driver.
pin 2: P Power SDR : O : The power supply ON signal output for SDR driver.
pin 3: NU : - : Not in use.
pin 4: NU : - : Not in use.
pin 5: NU : - : Not in use.
pin 6: NU : - : Not in use.
pin 7: P AUDIO SW : O : The audio switch signal output.
pin 8: BYTE : IN : The data length selection(8bit/16bit).
pin 9: CN VSS : IN : Connect to VSS.
pin 10: NU : - : Not in use.
pin 11: NU : - : Not in use.
pin 12: RESET : IN : Reset signal input.
pin 13: X OUT : O : Crystal connection.
pin 14: VSS : - : Negative supply voltage.
pin 15: X IN : IN : Crystal connection.
pin 16: VCC : - : Positive supply voltage.
pin 17: NMI : IN : Pull up.
pin 18: SYS ACC : IN : ACC detect signal input.
pin 19: BU DET : IN : Backup detection signal input.
pin 20: NU : - : Not in use.
pin 21: NU : - : Not in use.
pin 22: NU : - : Not in use.
pin 23: NU : - : Not in use.
pin 24: NU : - : Not in use.
pin 25: NU : - : Not in use.
pin 26: NU : - : Not in use.
pin 27: NU : - : Not in use.
pin 28: NDS REQ : O : NDS request signal output.
pin 29: NDS RX : IN : NDS serial data input from NDS-A/C.
pin 30: NDS TX : O : NDS serial data output to NDS-A/C.
pin 31: FLASH TX : O : The serial data output for the flash memory.
pin 32: FLASH RX : IN : The serial data input for the flash memory.
pin 33: FLASH CLK : O : The clock pulse output for the flash memory.
pin 34: NU : - : Not in use.
pin 35: NU : - : Not in use.
pin 36: NU : - : Not in use.
pin 37: NU : - : Not in use.
pin 38: NU : - : Not in use.
pin 39: NU : - : Not in use.
pin 40: NU : - : Not in use.
pin 41: FALSH EPM : IN : EPM signal input for the flash memory.
pin 42: NU : - : Not in use.
pin 43: NU : - : Not in use.
pin 44: NU : - : Not in use.
pin 45: NU : - : Not in use.
pin 46: FLASH CE : IN : The chip enable signal input for the flash memory.
pin 47: NU : - : Not in use.
pin 48: SAT MODE : IN : For debuging.
pin 49: NU : - : Not in use.
pin 50: SDR DBG : IN : For debuging.
pin 51: P SSI SSN : O : SSI switch signal input.
pin 52: P SSI MDI : IN : SSI serial data input.
pin 53: P SSI MDO : O : SSI serial data output.
pin 54: P SSI SCK : O : SSI clock pulse output.
pin 55: NU : - : Not in use.
pin 56: P SR RESET : O : The reset pulse output to SIRIUS chip.
pin 57: NU : - : Not in use.
pin 58: NU : - : Not in use.
pin 59: NU : - : Not in use.
pin 60: NU : - : Not in use.
pin 61: NU : - : Not in use.
pin 62: NU : - : Not in use.
pin 63: NU : - : Not in use.
pin 64: NU : - : Not in use.
pin 65: NU : - : Not in use.
pin 66: NU : - : Not in use.
pin 67: NU : - : Not in use.
pin 68: NU : - : Not in use.
pin 69: NU : - : Not in use.
pin 70: NU : - : Not in use.
pin 71: P SR ANT DET : IN : SIRIUS antenna connection detect.
pin 72: NU : - : Not in use.
pin 73: NU : - : Not in use.
pin 74: NU : - : Not in use.
pin 75: NU : - : Not in use.
pin 76: NU : - : Not in use.
pin 77: NU : - : Not in use.
pin 78: NU : - : Not in use.
pin 79: NU : - : Not in use.
pin 80: NU : - : Not in use.
pin 81: NU : - : Not in use.
pin 82: NU : - : Not in use.
pin 83: NU : - : Not in use.
pin 84: NU : - : Not in use.
pin 85: NU : - : Not in use.
pin 86: NU : - : Not in use.
pin 87: P DAC CKS : O : Clock pulse output to DAC.
pin 88: NU : - : Not in use.
pin 89: P DAC DIF 1 : O : DIF pulse output to DAC.
pin 90: NU : - : Not in use.
pin 91: P DAC DIF 0 : O : DIF pulse output to DAC.
pin 92: P DAC DEM : O : DEM pulse output to DAC.
pin 93: NU : - : Not in use.
pin 94: P DAC RESET : O : RESET pulse output to DAC.
pin 95: NU : - : Not in use.
pin 96: A VSS : - : Analog ground.

pin 97: NU : - : Not in use.
pin 98: Vref : - : Reference voltage.
pin 99: A VCC : - : Positive supply voltage for the internal analog section.
pin100: NU : - : Not in use.

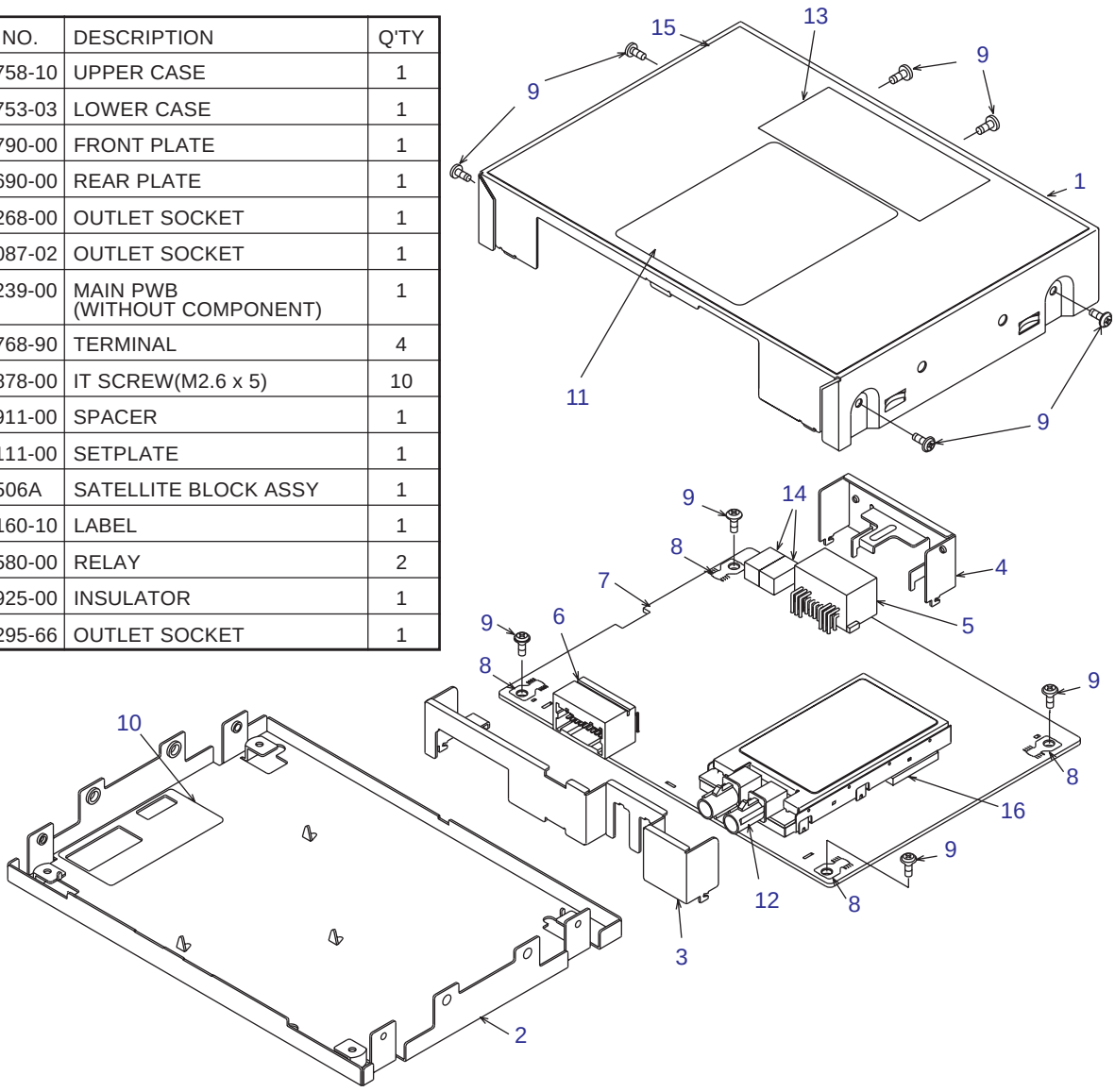
052-3711-11 MBM29LV400BC-70PFTN Flash Memory

1.Terminal Description

pin 1: A 15 : IN : Address signal input.
pin 2: A 14 : IN : Address signal input.
pin 3: A 13 : IN : Address signal input.
pin 4: A 12 : IN : Address signal input.
pin 5: A 11 : IN : Address signal input.
pin 6: A 10 : IN : Address signal input.
pin 7: A 9 : IN : Address signal input.
pin 8: A 8 : IN : Address signal input.
pin 9: NU : - : Not in use.
pin 10: NU : - : Not in use.
pin 11: WE : IN : Write enable signal input.
pin 12: RESET : IN : Reset signal input.
pin 13: NU : - : Not in use.
pin 14: NU : - : Not in use.
pin 15: RY/BY : O : The ready/busy signal output.
pin 16: NU : - : Not in use.
pin 17: A 17 : IN : Address signal input.
pin 18: A 7 : IN : Address signal input.
pin 19: A 6 : IN : Address signal input.
pin 20: A 5 : IN : Address signal input.
pin 21: A 4 : IN : Address signal input.
pin 22: A 3 : IN : Address signal input.
pin 23: A 2 : IN : Address signal input.
pin 24: A 1 : IN : Address signal input.
pin 25: A 0 : IN : Address signal input.
pin 26: CE : IN : Chip enable signal input.
pin 27: VSS : - : Negative supply voltage.
pin 28: OE : IN : Output enable signal input.
pin 29: D 0 : I/O: Data input/output.
pin 30: D 8 : I/O: Data input/output.
pin 31: D 1 : I/O: Data input/output.
pin 32: D 9 : I/O: Data input/output.
pin 33: D 2 : I/O: Data input/output.
pin 34: D 10 : I/O: Data input/output.
pin 35: D 3 : I/O: Data input/output.
pin 36: D 11 : I/O: Data input/output.
pin 37: VCC : - : Positive supply voltage.
pin 38: D 4 : I/O: Data input/output.
pin 39: D 12 : I/O: Data input/output.
pin 40: D 5 : I/O: Data input/output.
pin 41: D 13 : I/O: Data input/output.
pin 42: D 6 : I/O: Data input/output.
pin 43: D 14 : I/O: Data input/output.
pin 44: D 7 : I/O: Data input/output.
pin 45: D15/A-1 : I/O: Data input/output. And address input.
pin 46: VSS : - : Negative supply voltage.
pin 47: BYTE : IN : Connect to the ground.
pin 48: A 16 : IN : Address signal input.

EXPLODED VIEW/PARTS LIST

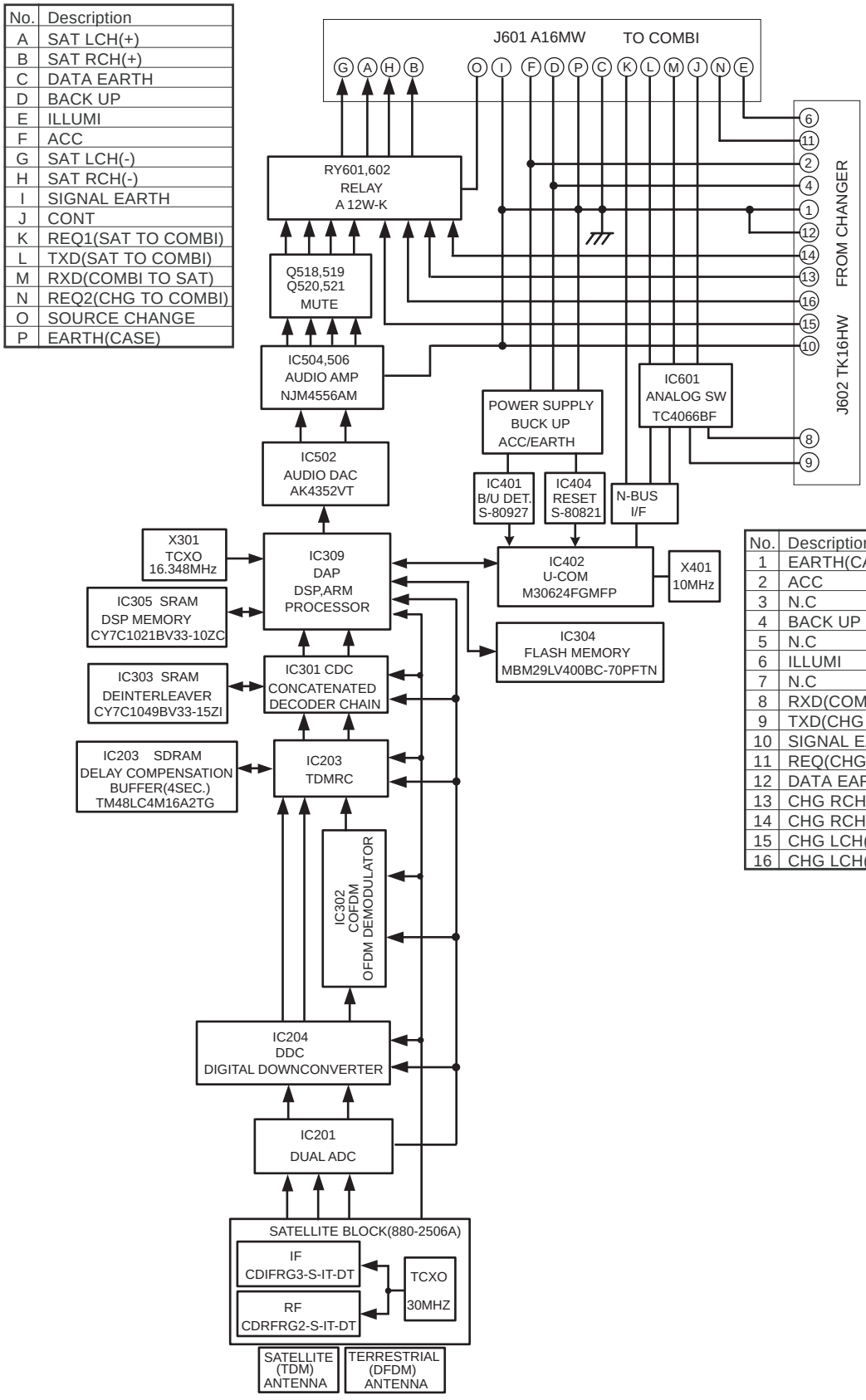
NO.	PART NO.	DESCRIPTION	Q'TY
1	310-1758-10	UPPER CASE	1
2	311-1753-03	LOWER CASE	1
3	309-0790-00	FRONT PLATE	1
4	307-0690-00	REAR PLATE	1
5	074-1268-00	OUTLET SOCKET	1
6	074-1087-02	OUTLET SOCKET	1
7	039-2239-00	MAIN PWB (WITHOUT COMPONENT)	1
8	073-0768-90	TERMINAL	4
9	716-0878-00	IT SCREW(M2.6 x 5)	10
10	347-6911-00	SPACER	1
11	286-6111-00	SETPLATE	1
12	880-2506A	SATELLITE BLOCK ASSY	1
13	290-8160-10	LABEL	1
14	014-0580-00	RELAY	2
15	347-6925-00	INSULATOR	1
16	074-1295-66	OUTLET SOCKET	1



EN-1186E

BLOCK DIAGRAM

No.	Description
A	SAT LCH(+)
B	SAT RCH(+)
C	DATA EARTH
D	BACK UP
E	ILLUMI
F	ACC
G	SAT LCH(-)
H	SAT RCH(-)
I	SIGNAL EARTH
J	CONT
K	REQ1(SAT TO COMBI)
L	TXD(SAT TO COMBI)
M	RXD(COMBI TO SAT)
N	REQ2(CHG TO COMBI)
O	SOURCE CHANGE
P	EARTH(CASE)



No.	Description
1	EARTH(CASE)
2	ACC
3	N.C
4	BACK UP
5	N.C
6	ILLUMI
7	N.C
8	RXD(COMBI TO CHG)
9	TXD(CHG TO COMBI)
10	SIGNAL EARTH
11	REQ(CHG TO COMBI)
12	DATA EARTH
13	CHG RCH(-)
14	CHG RCH(+)
15	CHG LCH(-)
16	CHG LCH(+)

ELECTRICAL PARTS LIST

Main PWB(B1) section

Note) Several different parts of the same reference number are alternative parts.
One of those parts is used in the set.

REF No.	PART No.	DESCRIPTION
BL101	880-2506A	SATELLITE BLOCK
C101	042-0416-56	10V 22 uF
C102	178-3342-78	0.33 uF
C103	168-1042-78	16V 0.1 uF
C201	163-1063-35	16V10 uF
C202	177-2252-78	16V2.2 uF
C203	168-1022-55	1000pF
C204	168-1042-78	16V 0.1 uF
C205	168-1022-55	1000pF
C206	168-1042-78	16V 0.1 uF
C207	168-1042-78	16V 0.1 uF
C208	168-1042-78	16V 0.1 uF
C209	168-1042-78	16V 0.1 uF
C210	168-1042-78	16V 0.1 uF
C211	168-1042-78	16V 0.1 uF
C212	168-1042-78	16V 0.1 uF
C213	168-1042-78	16V 0.1 uF
C214	168-1042-78	16V 0.1 uF
C215	168-1022-55	1000pF
C216	043-0504-50	10V4.7 uF
C217	163-1063-35	16V10 uF
C218	168-1042-78	16V 0.1 uF
C219	168-1042-78	16V 0.1 uF
C220	163-1063-35	16V10 uF
C221	166-1511-50	150pF CH
C222	166-1511-50	150pF CH
C223	166-1511-50	150pF CH
C224	166-1511-50	150pF CH
C225	166-1511-50	150pF CH
C226	166-1511-50	150pF CH
C227	043-0504-50	10V4.7 uF
C228	168-1042-78	16V 0.1 uF
C229	168-1042-78	16V 0.1 uF
C230	168-1042-78	16V 0.1 uF
C231	168-1022-55	1000pF
C232	166-1811-50	180pF CH
C233	168-1022-55	1000pF
C234	168-1042-78	16V 0.1 uF
C235	168-1042-78	16V 0.1 uF
C236	168-1042-78	16V 0.1 uF
C237	168-1042-78	16V 0.1 uF
C238	168-1042-78	16V 0.1 uF
C239	168-1042-78	16V 0.1 uF
C240	168-1022-55	1000pF
C241	168-1022-55	1000pF
C242	168-1042-78	16V 0.1 uF
C243	168-1022-55	1000pF
C244	168-1022-55	1000pF
C245	168-1042-78	16V 0.1 uF
C246	168-1022-55	1000pF
C247	168-1042-78	16V 0.1 uF
C248	168-1022-55	1000pF
C249	168-1022-55	1000pF
C250	168-1042-78	16V 0.1 uF
C251	168-1042-78	16V 0.1 uF
C252	168-1022-55	1000pF
C253	168-1042-78	16V 0.1 uF
C254	168-1022-55	1000pF
C255	168-1042-78	16V 0.1 uF
C256	168-1022-55	1000pF
C257	168-1042-78	16V 0.1 uF
C258	168-1042-78	16V 0.1 uF
C259	168-1022-55	1000pF
C260	168-1042-78	16V 0.1 uF
C261	168-1022-55	1000pF
C262	168-1022-55	1000pF
C263	168-1022-55	1000pF
C264	166-1811-50	180pF CH
C265	168-1042-78	16V 0.1 uF
C266	168-1042-78	16V 0.1 uF
C267	168-1042-78	16V 0.1 uF
C268	168-1042-78	16V 0.1 uF
C269	168-1042-78	16V 0.1 uF
C270	168-1042-78	16V 0.1 uF
C271	168-1042-78	16V 0.1 uF
C272	168-1042-78	16V 0.1 uF
C273	168-1042-78	16V 0.1 uF
C274	168-1042-78	16V 0.1 uF
C275	168-1042-78	16V 0.1 uF
C276	168-1042-78	16V 0.1 uF
C277	168-1042-78	16V 0.1 uF
C278	168-1042-78	16V 0.1 uF
C279	168-1042-78	16V 0.1 uF
C280	168-1042-78	16V 0.1 uF
C281	168-1042-78	16V 0.1 uF
C282	168-4712-55	470pF
C283	168-4712-55	470pF
C284	168-4712-55	470pF
C285	168-4712-55	470pF
C286	168-4712-55	470pF
C301	168-1042-78	16V 0.1 uF
C302	168-1042-78	16V 0.1 uF
C303	168-1042-78	16V 0.1 uF
C304	168-1042-78	16V 0.1 uF
C305	168-1042-78	16V 0.1 uF
C306	168-1042-78	16V 0.1 uF
C307	168-1042-78	16V 0.1 uF
C308	168-1042-78	16V 0.1 uF
C309	168-1042-78	16V 0.1 uF
C310	168-1042-78	16V 0.1 uF
C311	168-1042-78	16V 0.1 uF
C312	168-1042-78	16V 0.1 uF
C313	168-1042-78	16V 0.1 uF
C314	168-1042-78	16V 0.1 uF
C315	168-1042-78	16V 0.1 uF
C316	168-1042-78	16V 0.1 uF
C317	168-1042-78	16V 0.1 uF
C318	168-1042-78	16V 0.1 uF
C319	168-1042-78	16V 0.1 uF
C320	168-1042-78	16V 0.1 uF
C321	168-1042-78	16V 0.1 uF
C322	168-1042-78	16V 0.1 uF
C323	168-1042-78	16V 0.1 uF
C324	168-2245-79	0.22 uF
C325	166-4096-50	4pF CH
C326	168-1022-55	1000pF
C327	168-1022-55	1000pF
C328	168-1042-78	16V 0.1 uF
C329	168-1022-55	1000pF
C330	168-2245-79	0.22 uF
C331	168-2245-79	0.22 uF
C332	168-1022-55	1000pF
C334	168-1022-55	1000pF
C335	168-1042-78	16V 0.1 uF
C336	168-1042-78	16V 0.1 uF
C337	168-1042-78	16V 0.1 uF
C338	168-1042-78	16V 0.1 uF
C339	168-1042-78	16V 0.1 uF
C340	168-1042-78	16V 0.1 uF
C341	168-1042-78	16V 0.1 uF
C342	168-1042-78	16V 0.1 uF
C343	168-1042-78	16V 0.1 uF
C344	168-1042-78	16V 0.1 uF
C345	168-1042-78	16V 0.1 uF
C346	168-1042-78	16V 0.1 uF
C347	168-1022-55	1000pF
C348	168-1042-78	16V 0.1 uF
C349	168-1022-55	1000pF
C350	168-1042-78	16V 0.1 uF
C351	168-1042-78	16V 0.1 uF
C352	168-1042-78	16V 0.1 uF
C353	168-1042-78	16V 0.1 uF
C354	168-1042-78	16V 0.1 uF
C355	168-1042-78	16V 0.1 uF
C356	168-1022-55	1000pF
C357	168-1022-55	1000pF
C358	178-1052-78	1 uF
C359	178-1052-78	1 uF
C360	168-1042-78	16V 0.1 uF
C361	168-1042-78	16V 0.1 uF
C362	168-1042-78	16V 0.1 uF
C363	168-1042-78	16V 0.1 uF
C364	168-1032-55	0.01 uF
C365	168-1042-78	16V 0.1 uF
C366	168-1042-78	16V 0.1 uF
C367	168-1042-78	16V 0.1 uF
C368	168-1032-55	0.01 uF
C369	168-1032-55	0.01 uF
C401	163-1063-35	16V10 uF
C402	168-1042-78	16V 0.1 uF
C403	168-1045-56	0.1 uF
C404	163-1063-35	16V10 uF
C405	168-4732-78	16V 0.047 uF
C411	168-4732-78	16V 0.047 uF
C420	168-4722-55	4700pF
C421	178-3342-78	0.33 uF
C501	168-1042-78	16V 0.1 uF
C502	163-4763-15	6.3V47 uF
C503	042-0645-50	10V 100uF TAN
C504	168-1022-55	1000pF
C505	168-1032-55	0.01 uF
C506	042-0416-54	16V10 uF
C507	168-1032-55	0.01 uF
C508	168-1032-55	0.01 uF
C509	042-0648-50	35V 100uF AL
C510	042-0416-54	16V10 uF
C511	042-0416-54	16V10 uF
C512	163-1073-35	16V100 uF
C513	163-2263-35	16V22 uF
C514	168-1032-55	0.01 uF
C515	178-3342-78	0.33 uF
C517	168-1032-55	0.01 uF
C518	168-1032-55	0.01 uF
C519	163-3363-25	10V33 uF
C520	163-3363-25	10V33 uF
C521	166-1011-50	100pF CH
C522	166-1011-50	100pF CH
C523	168-1042-78	16V 0.1 uF
C524	163-1073-15	6.3V100 uF
C526	168-1032-55	0.01 uF
C527	163-1063-35	16V10 uF
C528	168-1032-55	0.01 uF
C529	166-2201-50	22pF CH
C530	166-2201-50	22pF CH
C531	042-0645-50	10V 100uF TAN
C532	042-0645-50	10V 100uF TAN
C533	168-1032-55	0.01 uF
C534	184-2273-22	10V220 uF
C535	184-2273-22	10V220 uF
C537	184-2273-22	10V220 uF
C538	184-2273-22	10V220 uF
C540	042-0647-00	35V 220uF
C541	168-4745-79	0.47 uF
C542	168-1032-55	0.01 uF
C543	168-1042-78	16V 0.1 uF
C545	163-1073-15	6.3V100 uF
C548	184-4773-31	16V470 uF
C549	168-1042-78	16V 0.1 uF
C554	168-1042-78	16V 0.1 uF
C555	178-4742-78	0.47 uF
C556	163-4763-35	16V47 uF
C557	168-1022-55	1000pF
C558	163-2263-35	16V22 uF

REF No.	PART No.	DESCRIPTION
C560	184-4773-31	16V470 uF
C563	168-1032-55	0.01 uF
C566	168-4722-55	4700pF
C567	168-4722-55	4700pF
C568	168-4722-55	4700pF
C569	168-4722-55	4700pF
C570	168-1042-78	16V 0.1 uF
C571	168-1042-78	16V 0.1 uF
C572	168-1042-78	16V 0.1 uF
C573	168-1042-78	16V 0.1 uF
C574	043-0504-50	10V4.7 uF
C575	168-1032-55	0.01 uF
C576	168-1042-78	16V 0.1 uF
C577	168-1042-78	16V 0.1 uF
C578	168-1042-78	16V 0.1 uF
C579	168-1042-78	16V 0.1 uF
C602	168-1042-78	16V 0.1 uF
C603	168-2222-55	2200pF
C604	168-2222-55	2200pF
C605	168-2222-55	2200pF
C606	168-2222-55	2200pF
C607	168-1022-55	1000pF
C608	168-1022-55	1000pF
C609	168-1022-55	1000pF
C610	168-1022-55	1000pF
C2001	168-1032-55	0.01 uF
C2002	168-1032-55	0.01 uF
C2003	168-1032-55	0.01 uF
C2004	168-1032-55	0.01 uF
C2005	168-1032-55	0.01 uF
C2006	168-1032-55	0.01 uF
C2007	168-1032-55	0.01 uF
C2008	168-1032-55	0.01 uF
C2009	168-4712-55	470pF
C2010	168-1032-55	0.01 uF
C2011	168-4712-55	470pF
C2012	168-1032-55	0.01 uF
C2013	168-4712-55	470pF
C2014	168-4712-55	470pF
C2015	168-1032-55	0.01 uF
C2016	168-1032-55	0.01 uF
C2017	168-4712-55	470pF
C2018	168-1032-55	0.01 uF
C2019	168-4712-55	470pF
C2020	168-1032-55	0.01 uF
C2021	168-4712-55	470pF
C2022	168-1032-55	0.01 uF
C2023	168-4712-55	470pF
C2024	168-4712-55	470pF
C2025	168-1032-55	0.01 uF
C2026	168-1032-55	0.01 uF
C2027	168-4712-55	470pF
C2028	168-1032-55	0.01 uF
C2029	168-4712-55	470pF
C2030	168-4712-55	470pF
C2031	168-1032-55	0.01 uF
C2032	168-4712-55	470pF
C2033	168-1032-55	0.01 uF
C2034	168-4712-55	470pF
C2035	168-1032-55	0.01 uF
C2036	168-4712-55	470pF
C2037	168-1032-55	0.01 uF
C2038	168-1032-55	0.01 uF
C2039	168-4712-55	470pF
C2040	168-1032-55	0.01 uF
C2041	168-4712-55	470pF
C2042	168-4712-55	470pF
C2043	168-1032-55	0.01 uF
C2044	168-4712-55	470pF
C2045	168-1032-55	0.01 uF
C2046	168-1032-55	0.01 uF
C2047	168-4712-55	470pF
C2048	168-1032-55	0.01 uF
C2049	168-4712-55	470pF

REF No.	PART No.	DESCRIPTION
C2050	168-1032-55	0.01 uF
C2051	168-4712-55	470pF
C3001	168-4712-55	470pF
C3002	168-1032-55	0.01 uF
C3003	168-4712-55	470pF
C3004	168-1032-55	0.01 uF
C3005	168-1032-55	0.01 uF
C3006	168-4712-55	470pF
C3007	168-1032-55	0.01 uF
C3008	168-4712-55	470pF
C3009	168-4712-55	470pF
C3010	168-1032-55	0.01 uF
C3011	168-4712-55	470pF
C3012	168-1032-55	0.01 uF
C3013	168-1032-55	0.01 uF
C3014	168-4712-55	470pF
C3015	168-1032-55	0.01 uF
C3016	168-4712-55	470pF
C3017	168-4712-55	470pF
C3018	168-1032-55	0.01 uF
C3019	168-1032-55	0.01 uF
C3020	168-4712-55	470pF
C3021	168-1032-55	0.01 uF
C3022	168-4712-55	470pF
C3023	168-1032-55	0.01 uF
C3024	168-4712-55	470pF
C3025	168-1032-55	0.01 uF
C3026	168-4712-55	470pF
C3027	168-4712-55	470pF
C3028	168-1032-55	0.01 uF
C3029	168-4712-55	470pF
C3030	168-1032-55	0.01 uF
C3031	168-4712-55	470pF
C3032	168-1032-55	0.01 uF
C3033	168-1032-55	0.01 uF
C3034	168-4712-55	470pF
C3035	168-1032-55	0.01 uF
C3036	168-4712-55	470pF
C3037	168-1032-55	0.01 uF
C3038	168-4712-55	470pF
C3039	168-1032-55	0.01 uF
C3040	168-4712-55	470pF
C3041	168-4712-55	470pF
C3042	168-1032-55	0.01 uF
C3043	168-1032-55	0.01 uF
C3044	168-4712-55	470pF
C3045	168-4712-55	470pF
C3046	168-1032-55	0.01 uF
C3047	168-4712-55	470pF
C3048	168-1032-55	0.01 uF
C3049	168-4712-55	470pF
C3050	168-1032-55	0.01 uF
C3051	168-4712-55	470pF
C3052	168-1032-55	0.01 uF
C3053	168-4712-55	470pF
C3054	168-1032-55	0.01 uF
C3055	168-1032-55	0.01 uF
C3056	168-4712-55	470pF
C3057	168-1032-55	0.01 uF
C3058	168-4712-55	470pF
C3059	168-1032-55	0.01 uF
C3060	168-4712-55	470pF
C3061	168-1032-55	0.01 uF
C3062	168-4712-55	470pF
C3063	168-4712-55	470pF
C3064	168-1032-55	0.01 uF
C3065	168-1032-55	0.01 uF
C3066	168-4712-55	470pF
C3067	168-4712-55	470pF
C3068	168-1032-55	0.01 uF
C3069	168-1032-55	0.01 uF
C3070	168-4712-55	470pF
C3071	168-4712-55	470pF
C3072	168-1032-55	0.01 uF

REF No.	PART No.	DESCRIPTION
C3073	168-4712-55	470pF
C3074	168-1032-55	0.01 uF
C3075	168-4712-55	470pF
C3076	168-1032-55	0.01 uF
C3077	168-4712-55	470pF
C3078	168-1032-55	0.01 uF
C3079	168-2245-79	0.22 uF
C3080	168-1022-55	1000pF
D501	001-2606-90	M1FS4
D502	001-0529-20	MA8039-L
D504	001-4306-09	HZU5ALLTRF
D505	001-2622-90	CMS03
D506	001-2015-00	RL253
D508	001-2403-90	M1F60
D509	001-0644-90	MA113
D512	001-4305-26	UDZSTE-17 10B
D513	001-4305-26	UDZSTE-17 10B
D514	001-0644-90	MA113
D515	001-0644-90	MA113
D516	001-0644-90	MA113
D517	001-2403-90	M1F60
D601	001-2403-90	M1F60
D602	001-2403-90	M1F60
D604	001-4305-26	UDZSTE-17 10B
D605	001-4305-26	UDZSTE-17 10B
D606	001-4305-26	UDZSTE-17 10B
D607	001-4305-26	UDZSTE-17 10B
D608	001-4305-26	UDZSTE-17 10B
D609	001-4305-26	UDZSTE-17 10B
FIL101	060-3115-51	CKD310JB1C224ST
FIL501	060-3115-51	CKD310JB1C224ST
FIL601	060-3116-55	CKD510JB1H102ST
FIL602	060-3116-55	CKD510JB1H102ST
FIL603	060-3116-55	CKD510JB1H102ST
FIL604	060-3116-55	CKD510JB1H102ST
FIL605	060-3116-55	CKD510JB1H102ST
FIL606	060-3116-55	CKD510JB1H102ST
FIL607	060-3116-55	CKD510JB1H102ST
IC101	051-3246-90	BA033FP
IC201	051-6385-00	M-CDADSE-P-I-DB
IC202	051-9322-08	MT48LC4M16A2TG-75IT
IC203	051-6382-01	M-CDRCTC-S-IT-DB
IC204	051-6380-00	M-CDDDDT3-S-IT-DB
IC301	051-6383-00	M-CDCDT-S-IT-DB
IC302	051-6381-00	M-CDODTB-S-IT-DB
IC303	051-9124-00	CY7C1049BV33-15ZL
IC304	052-3711-11	MBM29LV400BC
IC305	051-9123-00	CY7C1021BV33-10ZC
IC307	051-7272-08	TC7SZ125F
IC308	051-7202-28	TC7SH32FU TE85L
IC309	051-6384-00	M-CDAPT-S-IT-DB
IC401	051-5417-08	S-80927ANMP-DDQ
IC402	052-3710-10	M30624FGMFP
IC404	051-5437-08	S-80821ANMP-EDJ-E2
IC501	051-3303-90	LM6275MX-5.5
IC502	051-6386-08	AK4352VT E-2
IC503	051-3236-90	BA08FP
IC504	051-1407-90	NJM4556AM
IC506	051-1407-90	NJM4556AM
IC507	051-3302-90	LM2676SX-3.3
IC510	051-3271-91	PQ070XZ01ZP
IC601	051-0267-08	TC4066BF
J601	074-1087-02	16P
J602	074-1268-00	16P
L101	010-2285-66	BLM41P750SPB
L201	010-3039-52	NLC453232T-1R5K
L202	010-3039-52	NLC453232T-1R5K
L203	010-3039-52	NLC453232T-1R5K
L204	010-3039-52	NLC453232T-1R5K

REF No.	PART No.	DESCRIPTION
L301	010-3406-62	10 uH
L302	010-3406-62	10 uH
L501	010-3051-55	68 uH
L502	010-3402-56	33 uH
L503	010-2285-66	BLM41P750SPB
L504	010-2285-66	BLM41P750SPB
L510	010-2285-66	BLM41P750SPB
L511	010-2285-80	BLM11B102SP
L512	010-2285-80	BLM11B102SP
L513	010-2285-80	BLM11B102SP
L514	010-2285-80	BLM11B102SP
L515	010-2285-80	BLM11B102SP
L516	010-2285-80	BLM11B102SP
L517	010-2285-80	BLM11B102SP
L518	010-2285-80	BLM11B102SP
L519	010-2285-80	BLM11B102SP
L520	010-2285-80	BLM11B102SP
L521	010-2285-80	BLM11B102SP
L522	010-2285-80	BLM11B102SP
L523	010-2285-80	BLM11B102SP
L524	010-2285-80	BLM11B102SP
L525	010-2285-80	BLM11B102SP
L526	010-2285-80	BLM11B102SP
L527	010-2285-80	BLM11B102SP
L528	010-2285-80	BLM11B102SP
L529	010-2285-80	BLM11B102SP
L530	010-2285-80	BLM11B102SP
L531	010-2285-80	BLM11B102SP
Q101	125-2004-92	RN1402
Q401	125-0014-92	DTA114EK
Q402	192-2712-00	2SC2712
Q501	193-1664-00	2SD1664
Q504	190-1298-00	2SA1298
Q505	125-2004-92	RN1402
Q509	193-1802-60	2SD1802FA-R.S.T
Q514	191-1202-61	2SB1202FA
Q515	125-2004-95	RN1405
Q516	125-2004-92	RN1402
Q517	190-1162-00	2SA1162
Q518	193-1306-00	2SD1306
Q519	193-1306-00	2SD1306
Q520	193-1306-00	2SD1306
Q521	193-1306-00	2SD1306
Q522	192-2712-00	2SC2712
Q523	192-2712-00	2SC2712
Q524	125-0014-92	DTA114EK
Q525	125-2004-92	RN1402
Q526	192-2712-00	2SC2712
Q527	190-1298-00	2SA1298
Q528	125-2004-92	RN1402
Q601	125-0021-91	DTA114EU
Q602	192-4081-00	2SC4081
Q603	125-0021-91	DTA114EU
Q604	192-4081-00	2SC4081
R101	119-4731-15	1/16W 47k ohm
R102	119-4721-15	1/16W 4.7k ohm
R202	119-3321-15	1/16W 3.3k ohm
R203	119-3321-15	1/16W 3.3k ohm
R204	119-3321-15	1/16W 3.3k ohm
R206	119-3321-15	1/16W 3.3k ohm
R207	119-2711-15	1/16W 270 ohm
R208	119-2711-15	1/16W 270 ohm
R209	119-2711-15	1/16W 270 ohm
R212	119-2711-15	1/16W 270 ohm
R213	119-2711-15	1/16W 270 ohm
R214	119-1011-15	1/16W 100 ohm
R215	119-1001-15	1/16W 10 ohm
R216	119-3321-15	1/16W 3.3k ohm
R217	119-3321-15	1/16W 3.3k ohm
R218	119-1001-15	1/16W 10 ohm
R219	119-3321-15	1/16W 3.3k ohm
R220	119-3321-15	1/16W 3.3k ohm
R301	119-1001-15	1/16W 10 ohm
R302	119-3321-15	1/16W 3.3k ohm

REF No.	PART No.	DESCRIPTION
R303	119-3301-15	1/16W 33 ohm
R304	119-3301-15	1/16W 33 ohm
R305	119-3301-15	1/16W 33 ohm
R306	119-0000-05	1/16W 0 ohm JW
R307	119-3321-15	1/16W 3.3k ohm
R308	119-1011-15	1/16W 100 ohm
R309	119-2711-15	1/16W 270 ohm
R310	119-3321-15	1/16W 3.3k ohm
R311	119-2711-15	1/16W 270 ohm
R312	119-3321-15	1/16W 3.3k ohm
R313	119-2711-15	1/16W 270 ohm
R314	119-2711-15	1/16W 270 ohm
R315	119-2711-15	1/16W 270 ohm
R316	119-2711-15	1/16W 270 ohm
R317	119-2711-15	1/16W 270 ohm
R318	119-2711-15	1/16W 270 ohm
R319	119-2711-15	1/16W 270 ohm
R320	119-1821-15	1/16W 1.8k ohm
R321	119-4711-15	1/16W 470 ohm
R322	119-4711-15	1/16W 470 ohm
R323	119-3321-15	1/16W 3.3k ohm
R324	119-4711-15	1/16W 470 ohm
R325	119-2211-15	1/16W 220 ohm
R326	119-3301-15	1/16W 33 ohm
R327	119-2711-15	1/16W 270 ohm
R328	119-6811-15	1/16W 680 ohm
R329	119-2711-15	1/16W 270 ohm
R330	119-2711-15	1/16W 270 ohm
R331	119-3321-15	1/16W 3.3k ohm
R332	119-1011-15	1/16W 100 ohm
R333	119-1011-15	1/16W 100 ohm
R334	119-1011-15	1/16W 100 ohm
R335	119-1011-15	1/16W 100 ohm
R336	111-1001-81	1/2W 10 ohm
R337	119-3321-15	1/16W 3.3k ohm
R338	119-3321-15	1/16W 3.3k ohm
R339	119-3321-15	1/16W 3.3k ohm
R340	119-3321-15	1/16W 3.3k ohm
R402	119-0000-05	1/16W 0 ohm JW
R403	119-0000-05	1/16W 0 ohm JW
R404	119-0000-05	1/16W 0 ohm JW
R405	119-0000-05	1/16W 0 ohm JW
R406	119-0000-05	1/16W 0 ohm JW
R407	119-2201-15	1/16W 22 ohm
R408	119-2201-15	1/16W 22 ohm
R409	119-2201-15	1/16W 22 ohm
R410	119-2201-15	1/16W 22 ohm
R411	119-2201-15	1/16W 22 ohm
R412	119-1211-15	1/16W 120 ohm
R413	119-1211-15	1/16W 120 ohm
R414	119-1211-15	1/16W 120 ohm
R415	119-1041-15	1/16W 100k ohm
R416	119-1211-15	1/16W 120 ohm
R417	119-4731-15	1/16W 47k ohm
R418	119-1031-15	1/16W 10k ohm
R419	119-1211-15	1/16W 120 ohm
R420	119-4731-15	1/16W 47k ohm
R421	119-1001-15	1/16W 10 ohm
R422	119-4721-15	1/16W 4.7k ohm
R423	119-1001-15	1/16W 10 ohm
R424	119-5621-15	1/16W 5.6k ohm
R427	119-4731-15	1/16W 47k ohm
R428	119-4731-15	1/16W 47k ohm
R433	119-1041-15	1/16W 100k ohm
R434	119-1041-15	1/16W 100k ohm
R441	119-1041-15	1/16W 100k ohm
R443	119-2201-15	1/16W 22 ohm
R444	119-2201-15	1/16W 22 ohm
R445	119-4731-15	1/16W 47k ohm
R451	119-8211-15	1/16W 820 ohm
R452	119-1041-15	1/16W 100k ohm
R453	119-2201-15	1/16W 22 ohm
R454	119-1011-15	1/16W 100 ohm
R501	119-0000-05	1/16W 0 ohm JW

REF No.	PART No.	DESCRIPTION
R504	119-1001-15	1/16W 10 ohm
R505	119-1211-15	1/16W 120 ohm
R508	119-3311-15	1/16W 330 ohm
R511	111-1021-81	1/2W 1k ohm
R513	119-3921-15	1/16W 3.9k ohm
R514	119-2231-15	1/16W 22k ohm
R515	119-1031-15	1/16W 10k ohm
R516	119-1031-15	1/16W 10k ohm
R517	119-3031-15	1/16W 30k ohm
R518	119-3031-15	1/16W 30k ohm
R521	119-1031-15	1/16W 10k ohm
R522	119-1031-15	1/16W 10k ohm
R523	119-0000-05	1/16W 0 ohm JW
R524	119-1541-15	1/16W 150k ohm
R525	119-1031-15	1/16W 10k ohm
R526	119-1031-15	1/16W 10k ohm
R527	119-0000-05	1/16W 0 ohm JW
R528	119-1001-15	1/16W 10 ohm
R529	119-1031-15	1/16W 10k ohm
R530	119-8221-15	1/16W 8.2k ohm
R551	119-1001-15	1/16W 10 ohm
R552	032-0140-62	1/10W 1k ohm F
R553	032-0140-62	1/10W 1k ohm F
R554	119-0000-05	1/16W 0 ohm JW
R555	119-1821-15	1/16W 1.8k ohm
R557	119-1031-15	1/16W 10k ohm
R558	119-1031-15	1/16W 10k ohm
R559	119-2201-15	1/16W 22 ohm
R560	119-2201-15	1/16W 22 ohm
R561	119-2201-15	1/16W 22 ohm
R562	119-2201-15	1/16W 22 ohm
R563	119-1031-15	1/16W 10k ohm
R564	119-1031-15	1/16W 10k ohm
R565	119-1031-15	1/16W 10k ohm
R567	119-1031-15	1/16W 10k ohm
R568	119-2221-15	1/16W 2.2k ohm
R569	119-2221-15	1/16W 2.2k ohm
R570	119-2221-15	1/16W 2.2k ohm
R571	119-2221-15	1/16W 2.2k ohm
R572	119-5631-15	1/16W 56k ohm
R573	119-1031-15	1/16W 10k ohm
R574	119-5631-15	1/16W 56k ohm
R575	119-1031-15	1/16W 10k ohm
R576	119-5621-15	1/16W 5.6k ohm
R577	119-4731-15	1/16W 47k ohm
R578	119-1031-15	1/16W 10k ohm
R579	119-5631-15	1/16W 56k ohm
R580	119-1031-15	1/16W 10k ohm
R581	119-1041-15	1/16W 100k ohm
R582	111-2291-93	1/4W 2.2 ohm
R583	119-4711-15	1/16W 470 ohm
R584	119-4731-15	1/16W 47k ohm
R585	119-1031-15	1/16W 10k ohm
R601	119-3331-15	1/16W 33k ohm
R602	119-4721-15	1/16W 4.7k ohm
R604	119-3331-15	1/16W 33k ohm
R605	119-4731-15	1/16W 47k ohm
R606	119-4721-15	1/16W 4.7k ohm
R2001	119-4711-15	1/16W 470 ohm
R2002	119-4711-15	1/16W 470 ohm
R2003	119-4711-15	1/16W 470 ohm
R2004	119-1511-15	1/16W 150 ohm
R2005	119-4711-15	1/16W 470 ohm
R2006	119-4711-15	1/16W 470 ohm
R3001	119-4711-15	1/16W 470 ohm
R3002	119-1011-15	1/16W 100 ohm
R3003	119-2211-15	1/16W 220 ohm
R3005	119-4711-15	1/16W 470 ohm
R3006	119-4711-15	1/16W 470 ohm
R3007	119-2211-15	1/16W 220 ohm
R3008	119-1011-15	1/16W 100 ohm
R3009	119-2201-15	1/16W 22 ohm
RB201	050-0140-53	1/32W 0 ohm x4J
RB202	050-0140-53	1/32W 0 ohm x4J

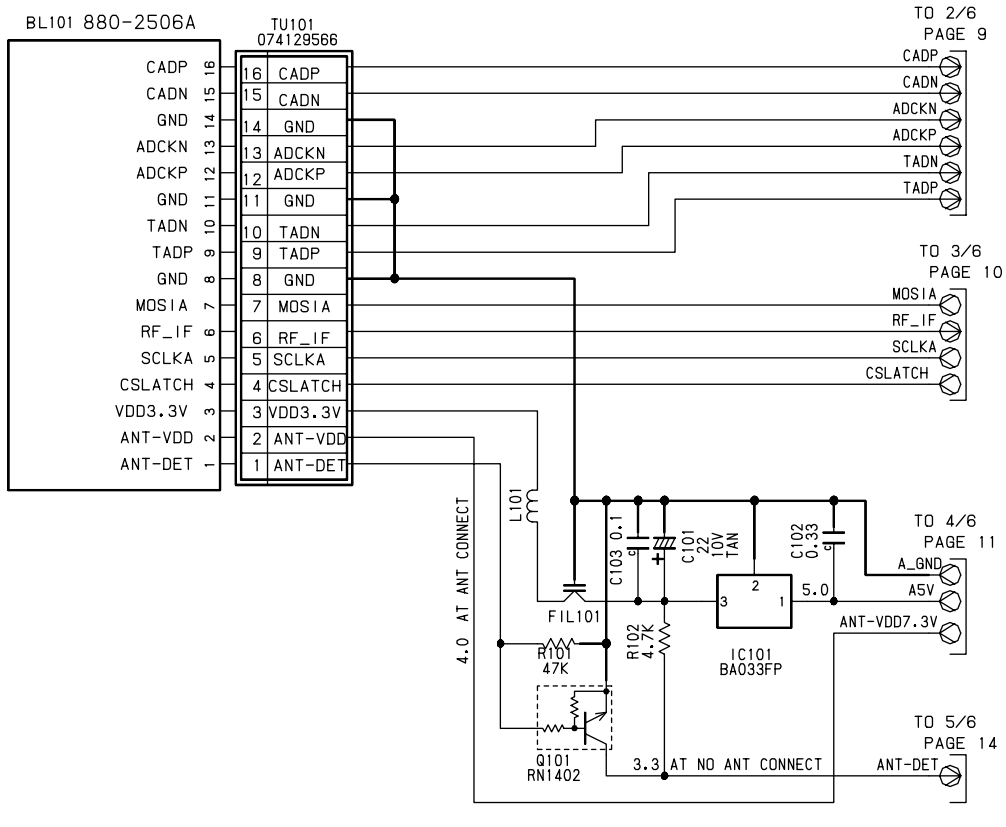
REF No.	PART No.	DESCRIPTION
RB203	050-0140-53	1/32W 0 ohm x4J
RB204	050-0140-53	1/32W 0 ohm x4J
RB205	050-0140-53	1/32W 0 ohm x4J
RB206	050-0140-53	1/32W 0 ohm x4J
RB208	050-0140-53	1/32W 0 ohm x4J
RB209	050-0140-53	1/32W 0 ohm x4J
RB210	050-0140-53	1/32W 0 ohm x4J
RB211	050-0140-53	1/32W 0 ohm x4J
RB212	050-0140-53	1/32W 0 ohm x4J
RB213	050-0140-53	1/32W 0 ohm x4J
RB214	050-0140-59	1/32W 33 ohm x4J
RB215	050-0140-59	1/32W 33 ohm x4J
RB216	050-0140-59	1/32W 33 ohm x4J
RB217	050-0140-59	1/32W 33 ohm x4J
RB218	050-0140-59	1/32W 33 ohm x4J
RB219	050-0140-59	1/32W 33 ohm x4J
RB220	050-0140-59	1/32W 33 ohm x4J
RB221	050-0140-59	1/32W 33 ohm x4J
RB222	050-0140-58	1/32W 470 ohm x4J
RB223	050-0140-58	1/32W 470 ohm x4J
RB224	050-0140-58	1/32W 470 ohm x4J
RB225	050-0140-58	1/32W 470 ohm x4J
RB226	050-0140-58	1/32W 470 ohm x4J
RB227	050-0140-58	1/32W 470 ohm x4J
RB228	050-0140-58	1/32W 470 ohm x4J
RB229	050-0140-58	1/32W 470 ohm x4J
RB230	050-0140-58	1/32W 470 ohm x4J
RB235	050-0140-70	1/32W 10 ohm x4J
RB236	050-0140-58	1/32W 470 ohm x4J
RB237	050-0140-58	1/32W 470 ohm x4J
RB238	050-0140-58	1/32W 470 ohm x4J
RB239	050-0140-58	1/32W 470 ohm x4J
RB240	050-0140-58	1/32W 470 ohm x4J

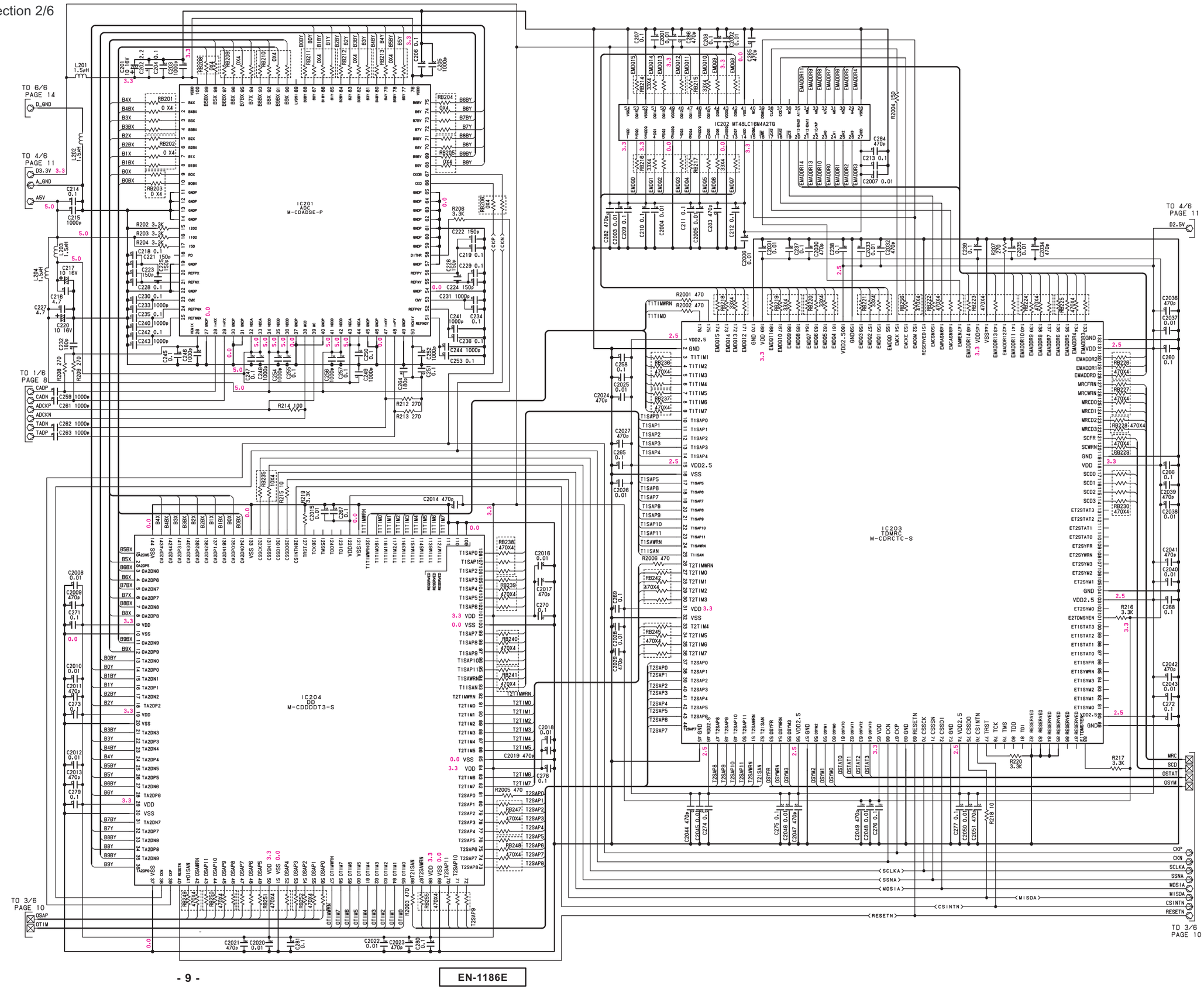
REF No.	PART No.	DESCRIPTION
RB241	050-0140-58	1/32W 470 ohm x4J
RB242	050-0140-58	1/32W 470 ohm x4J
RB245	050-0140-58	1/32W 470 ohm x4J
RB247	050-0140-58	1/32W 470 ohm x4J
RB248	050-0140-58	1/32W 470 ohm x4J
RB249	050-0140-58	1/32W 470 ohm x4J
RB250	050-0140-58	1/32W 470 ohm x4J
RB251	050-0140-58	1/32W 470 ohm x4J
RB252	050-0140-58	1/32W 470 ohm x4J
RB255	050-0140-58	1/32W 470 ohm x4J
RB256	050-0140-58	1/32W 470 ohm x4J
RB305	050-0140-58	1/32W 470 ohm x4J
RB306	050-0140-58	1/32W 470 ohm x4J
RB307	050-0140-58	1/32W 470 ohm x4J
RB308	050-0140-58	1/32W 470 ohm x4J
RB309	050-0140-58	1/32W 470 ohm x4J
RB310	050-0140-67	1/32W 220 ohm x4J
RB311	050-0140-67	1/32W 220 ohm x4J
RB312	050-0140-67	1/32W 220 ohm x4J
RB313	050-0140-67	1/32W 220 ohm x4J
RB314	050-0140-67	1/32W 220 ohm x4J
RB315	050-0140-67	1/32W 220 ohm x4J
RB316	050-0140-67	1/32W 220 ohm x4J
RB317	050-0140-67	1/32W 220 ohm x4J
RB321	050-0140-58	1/32W 470 ohm x4J
RB323	050-0140-52	1/32W 100 ohm x4J
RB324	050-0140-52	1/32W 100 ohm x4J
RB325	050-0140-52	1/32W 100 ohm x4J
RB326	050-0140-52	1/32W 100 ohm x4J
RB327	050-0140-52	1/32W 100 ohm x4J
RB328	050-0140-52	1/32W 100 ohm x4J
RB329	050-0140-52	1/32W 100 ohm x4J
RB330	050-0140-52	1/32W 100 ohm x4J

REF No.	PART No.	DESCRIPTION
RB331	050-0140-52	1/32W 100 ohm x4J
RB332	050-0140-58	1/32W 470 ohm x4J
RB333	050-0140-67	1/32W 220 ohm x4J
RB334	050-0140-58	1/32W 470 ohm x4J
RB335	050-0140-58	1/32W 470 ohm x4J
RB336	050-0140-67	1/32W 220 ohm x4J
RB337	050-0140-58	1/32W 470 ohm x4J
RB338	050-0140-67	1/32W 220 ohm x4J
RB339	050-0140-58	1/32W 470 ohm x4J
RB340	050-0140-67	1/32W 220 ohm x4J
RB341	050-0140-58	1/32W 470 ohm x4J
RB342	050-0140-67	1/32W 220 ohm x4J
RB343	050-0140-52	1/32W 100 ohm x4J
RB345	050-0140-52	1/32W 100 ohm x4J
RB346	050-0140-52	1/32W 100 ohm x4J
RB347	050-0140-58	1/32W 470 ohm x4J
RB348	050-0140-67	1/32W 220 ohm x4J
RB349	050-0140-58	1/32W 470 ohm x4J
RB350	050-0140-67	1/32W 220 ohm x4J
RB351	050-0140-58	1/32W 470 ohm x4J
RB352	050-0140-67	1/32W 220 ohm x4J
RY601	014-0580-00	A 12W-K
RY602	014-0580-00	A 12W-K
T501	009-9008-80	0.7mH
TU101	074-1295-66	OUTLET SOCKET 16P
X301	061-4526-90	16.384MNz
X401	060-1505-50	10MHz
Z103	073-0768-90	TERMIMAL
Z104	073-0768-90	TERMIMAL
Z105	073-0768-90	TERMIMAL
Z106	073-0768-90	TERMIMAL

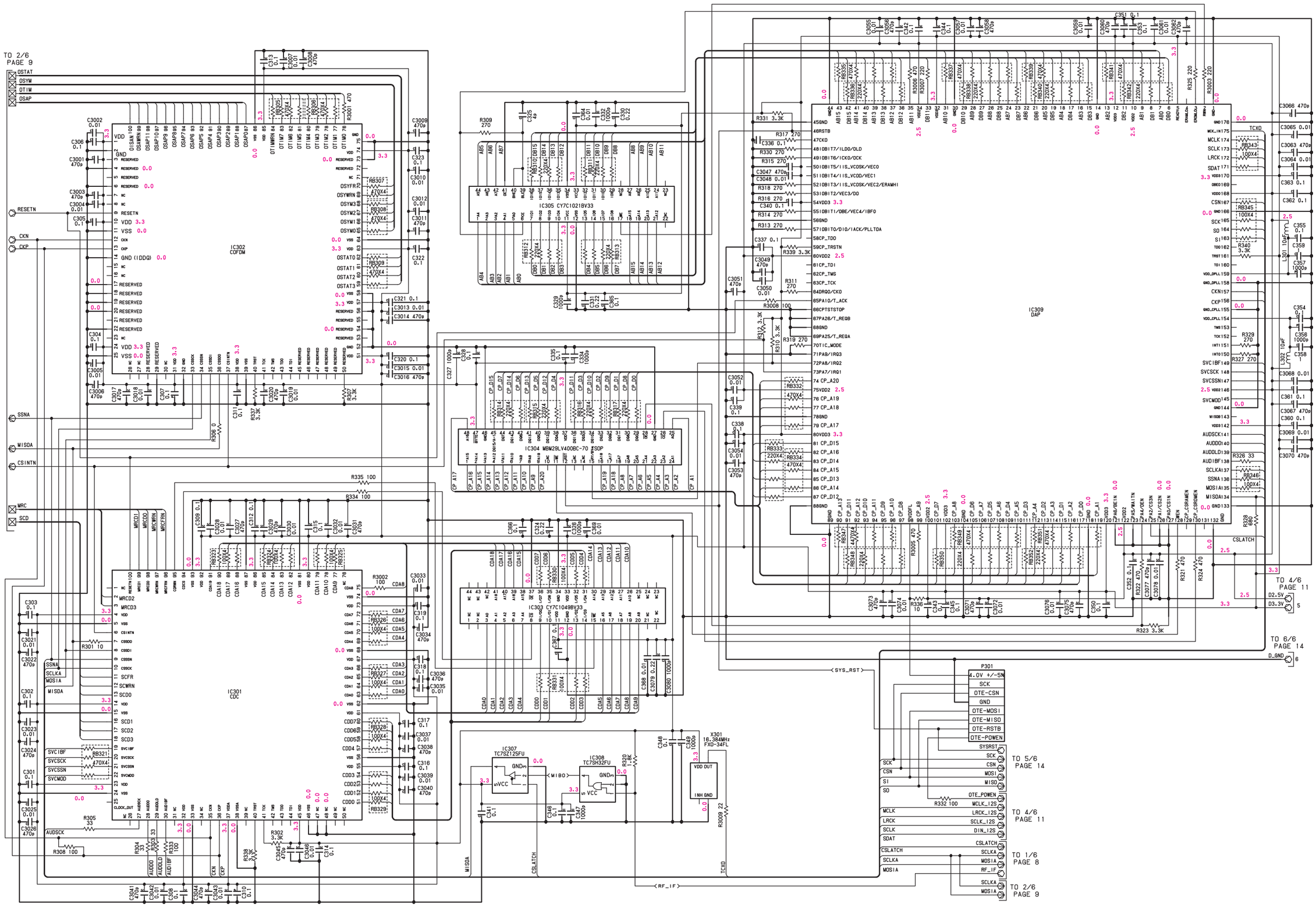
CIRCUIT DIAGRAM

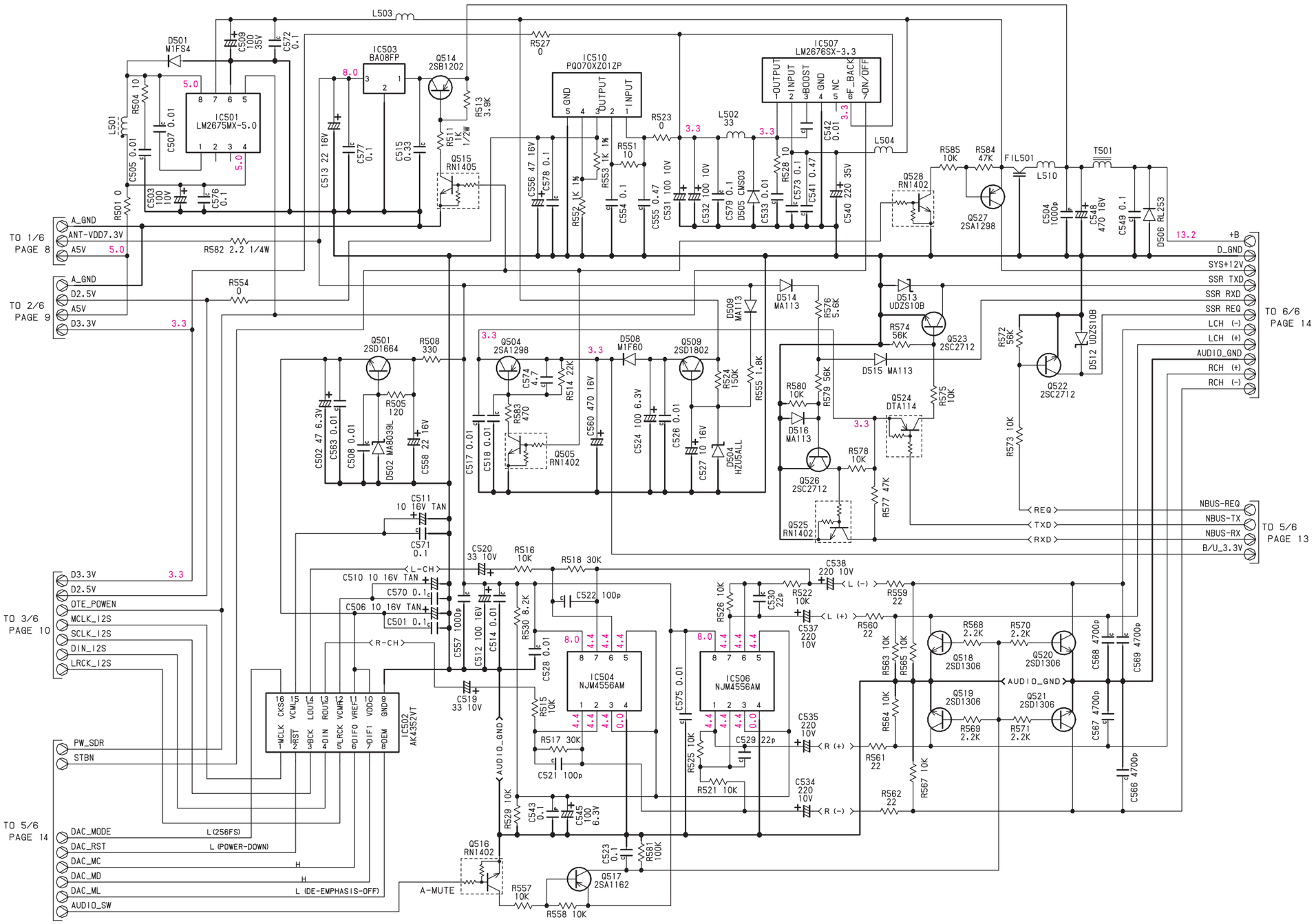
Main PWB(B1) section 1/6




IC201
ADC
M-CDADSE-P
IC202 MT48LC16M4A2TG
IC203
TDMRC
M-CDRCTC-S
IC204
DD
M-CDDDDT3-S
TO 6/6
PAGE 14
D_GND
TO 4/6
PAGE 11
D3.3V
A_GND
A5V
TO 1/6
PAGE 8
CADP
CADN
ADCKP
ADCKN
TADN
TADP
TO 4/6
PAGE 11
D2.5V
TO 3/6
PAGE 10
OSAP
OTIM
TO 3/6
PAGE 10
MRC
SCD
OSTAT
OSYM
CKP
CKN
SCLKA
SSNA
MOSIA
MISOA
CSINTN
RESETN

Main PWB(B1) section 3/6



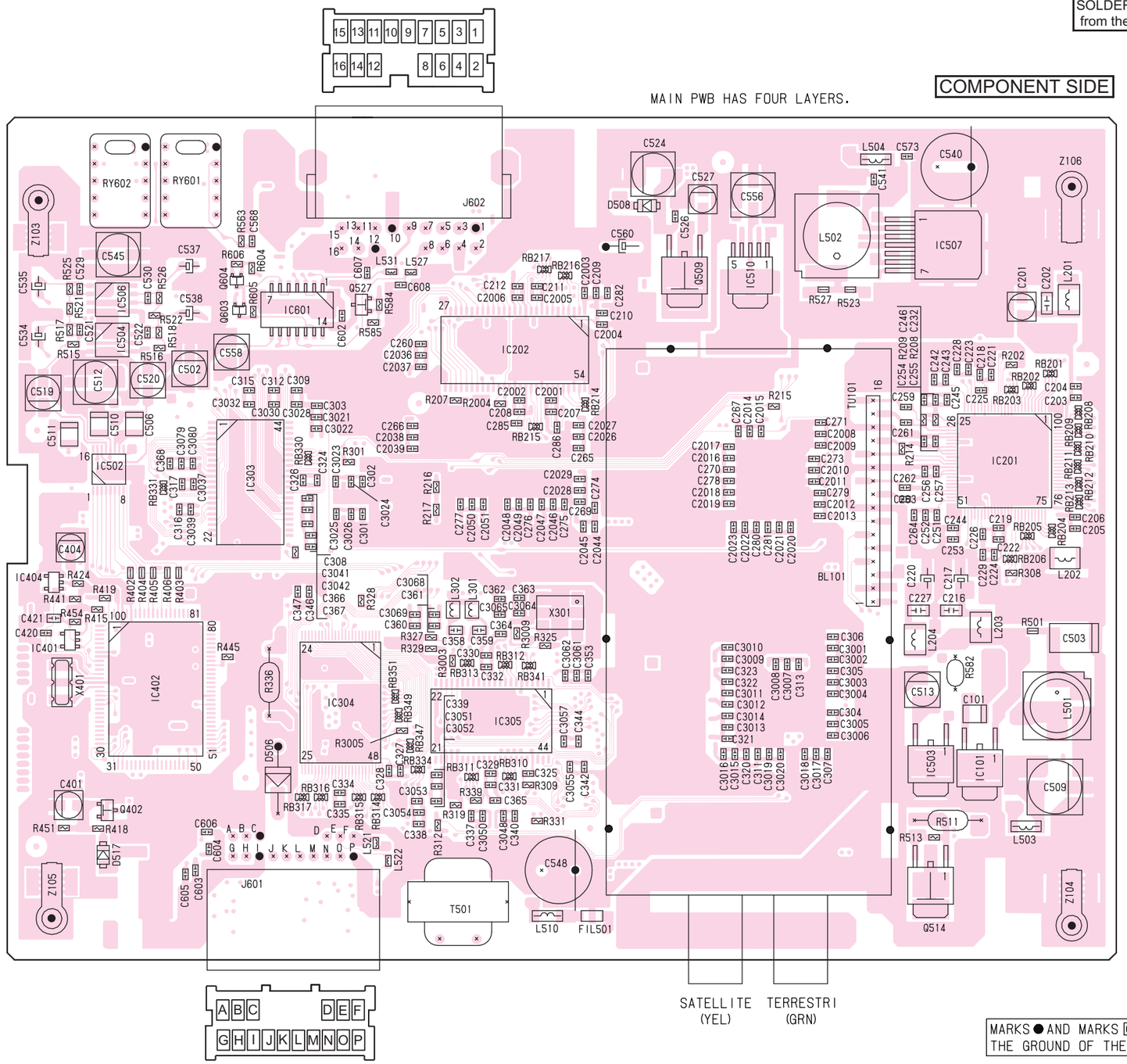

L503
D501 M1FS4
C509 100 35V
C572 0.1
IC503 BA08FP
Q514 2SB1202
R513 3.9K
IC501 LM2675MX-5.0
L501
R504 10
C507 0.01
C505 0.01
C503 100 10V
C576 0.1
R501 0
C513 22 16V
C577 0.1
C515 0.33
R511 1K 1/2W
Q515 RN1405
R527 0
IC510 PQ070XZ01ZP
IC507 LM2676SX-3.3
R523 0
L502 33
L504
C556 47 16V
C578 0.1
R552 1K 1%
R553 1K 1%
R551 10
C554 0.1
C555 0.47
C531 100 10V
C532 100 10V
C579 0.1
D505 CMS03
C533 0.01
R528 10
C573 0.1
C541 0.47
C540 220 35V
C542 0.01
Q528 RN1402
R585 10K
R584 47K
Q527 2SA1298
FIL501
L510
T501
C504 1000p
C548 470 16V
C549 0.1
D506 RL253
13.2
+B
D_GND
SYS+12V
SSR TXD
SSR RXD
SSR REQ
LCH (-)
LCH (+)
AUDIO_GND
RCH (+)
RCH (-)
TO 6/6 PAGE 14
TO 1/6 PAGE 8
A_GND
ANT-VDD7.3V
A5V
5.0
R582 2.2 1/4W
TO 2/6 PAGE 9
A_GND
D2.5V
A5V
D3.3V
3.3
R554 0
D509 MA113
D514 MA113
R576 5.6K
D513 UDZS10B
R574 56K
Q523 2SC2712
D515 MA113
Q524 DTA114
R575 10K
R572 56K
Q522 2SC2712
D512 UDZS10B
R573 10K
R580 10K
R579 56K
D516 MA113
Q526 2SC2712
R578 10K
R577 47K
Q525 RN1402
Q501 2SD1664
R508 330
R505 120
C502 47 6.3V
C583 0.01
C508 0.01
D502 MA8039L
C558 22 16V
Q504 2SA1298
C574 4.7
R514 22K
R583 470
Q505 RN1402
C517 0.01
C518 0.01
D508 M1F60
C560 470 16V
Q509 2SD1802
C524 100 6.3V
C526 0.01
C527 10 16V
D504 HZ05ALL
R524 150K
R555 1.8K
C511 10 16V TAN
C571 0.1
C520 33 10V
R516 10K
R518 30K
C522 100p
L-CH
C510 10 16V TAN
C570 0.1
C506 10 16V TAN
C501 0.1
R-CH
C557 1000p
C512 100 16V
C514 0.01
R530 8.2K
C528 0.01
C519 33 10V
R515 10K
R517 30K
C521 100p
AUDIO_GND
R529 10K
C543 0.1
C545 100 6.3V
IC502 AK4352VT
IC504 NJM4556AM
IC506 NJM4556AM
C575 0.01
C535 220 10V
C529 22p
R525 10K
R521 10K
C534 220 10V
R526 10K
C530 22p
R522 10K
C538 220 10V
C537 220 10V
L (-)
L (+)
R (+)
R (-)
R559 22
R560 22
R561 22
R562 22
R563 10K
R565 10K
R564 10K
R567 10K
R568 2.2K
R570 2.2K
Q518 2SD1306
Q520 2SD1306
Q519 2SD1306
Q521 2SD1306
R569 2.2K
R571 2.2K
AUDIO_GND
C568 4700p
C569 4700p
C567 4700p
C566 4700p
TO 3/6 PAGE 10
D3.3V
3.3
D2.5V
OTE_POWEN
MCLK_I2S
SCLK_I2S
DIN_I2S
LRCK_I2S
PW_SDR
STBN
TO 5/6 PAGE 14
DAC_MODE
L (256FS)
DAC_RST
L (POWER-DOWN)
DAC_MC
H
DAC_MD
H
DAC_ML
L (DE-EMPHASIS-OFF)
AUDIO_SW
A-MUTE
Q516 RN1402
R557 10K
Q517 2SA1162
R558 10K
C523 0.1
R581 100K
NBUS-REQ
NBUS-TX
NBUS-RX
B/U_3.3V
REQ
TXD
RXD
TO 5/6 PAGE 13

PRINTED WIRING BORD

Main PWB(B1) section

No.	Description
1	EARTH(CASE)
2	ACC
3	N.C
4	BACK UP
5	N.C
6	ILLUMI
7	N.C
8	RXD(COMBI TO CHG)
9	TXD(CHG TO COMBI)
10	SIGNAL EARTH
11	REQ(CHG TO COMBI)
12	DATA EARTH
13	CHG RCH(-)
14	CHG RCH(+)
15	CHG LCH(-)
16	CHG LCH(+)

Caution:
COMPONENT SIDE: Parts on the component side seen from the component side are indicated.
SOLDER SIDE: Parts on the solder side seen from the solder side are indicated.

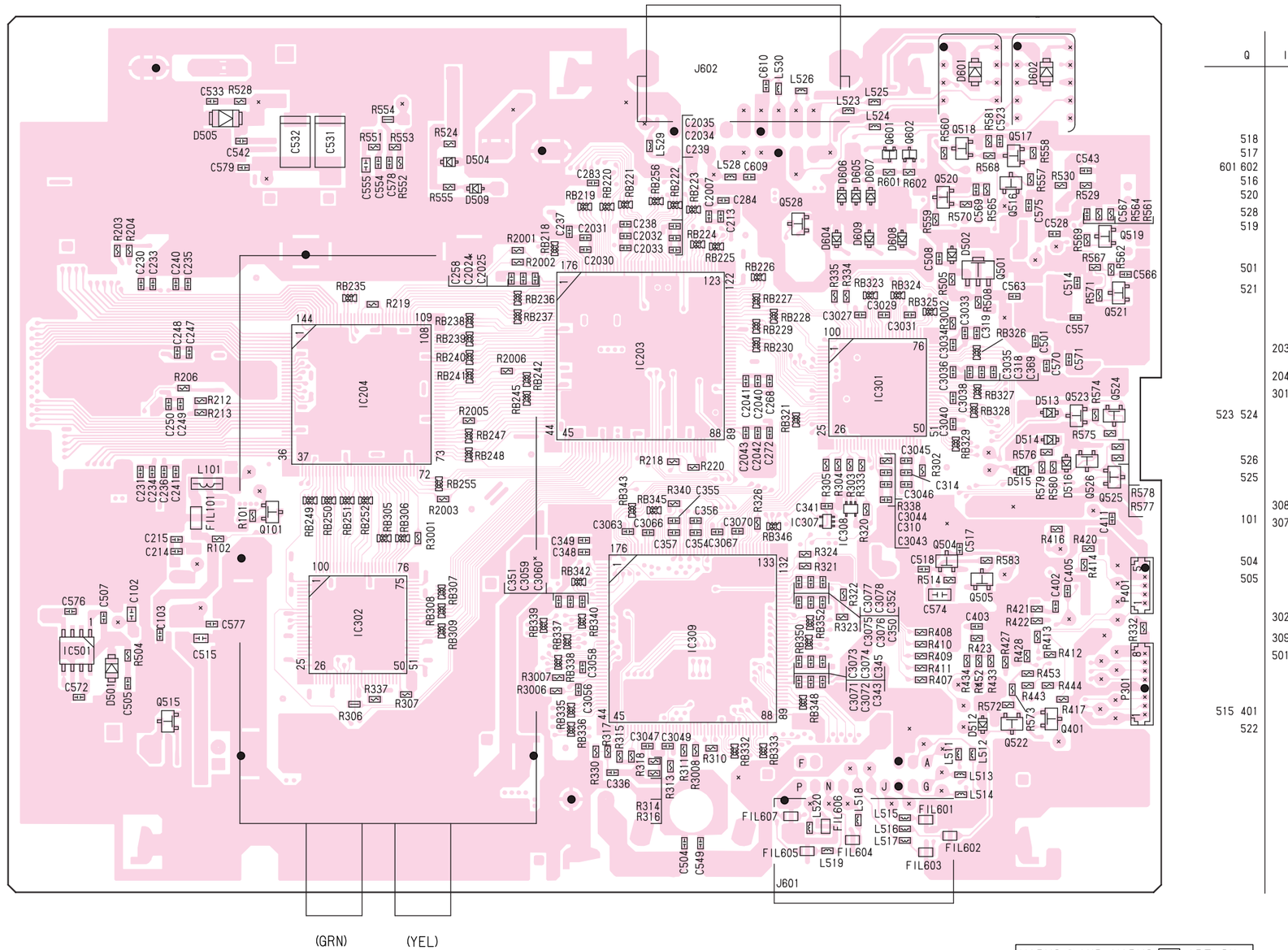


IC	Q
507	
510	509
	604
506	527
601	603
504	
202	
201	
502	
303	
404	
401	
402	
304	
305	
503	
101	
	402
	514

No.	Description
A	SAT LCH(+)
B	SAT RCH(+)
C	DATA EARTH
D	BACK UP
E	ILLUMI
F	ACC
G	SAT LCH(-)
H	SAT RCH(-)
I	SIGNAL EARTH
J	CONT
K	REQ1(SAT TO COMBI)
L	TXD(SAT TO COMBI)
M	RXD(COMBI TO SAT)
N	REQ2(CHG TO COMBI)
O	SOURCE CHANGE
P	EARTH(CASE)

MARKS ● AND MARKS GND ARE ON THE GROUND OF THE DIP LAYER.

SOLDER SIDE

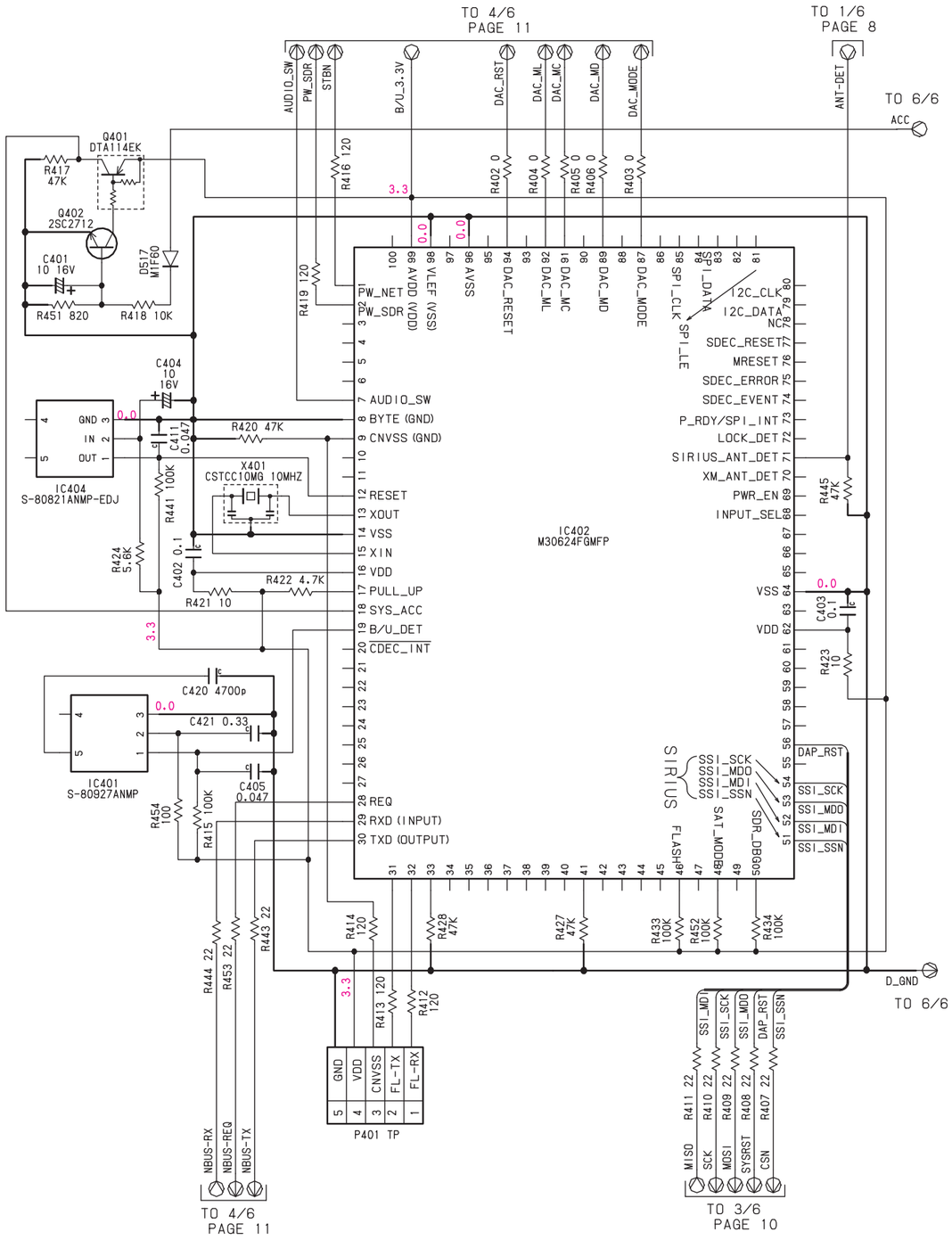


Q	IC
518	
517	
601 602	
516	
520	
528	
519	
501	
521	
	203
	204
	301
523 524	
526	
525	
	308
101	307
504	
505	
	302
	309
	501
515 401	
522	

MARKS ● AND MARKS GND ARE ON THE GROUND OF THE DIP LAYER.

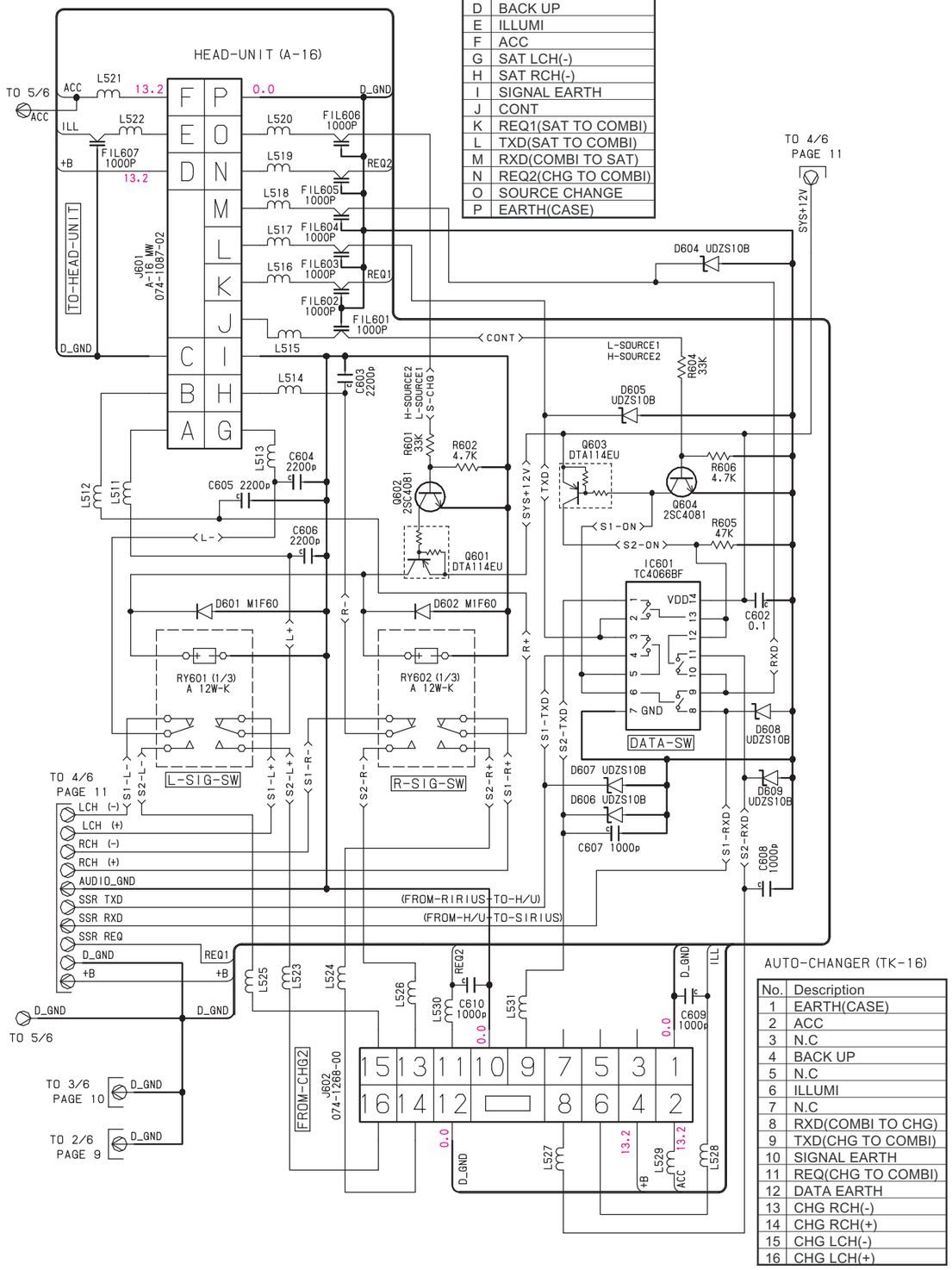
CIRCUIT DIAGRAM

Main PWB(B1) section 5/6



Main PWB(B1) section 6/6

No.	Description
A	SAT LCH(+)
B	SAT RCH(+)
C	DATA EARTH
D	BACK UP
E	ILLUMI
F	ACC
G	SAT LCH(-)
H	SAT RCH(-)
I	SIGNAL EARTH
J	CONT
K	REQ1(SAT TO COMBI)
L	TXD(SAT TO COMBI)
M	RXD(COMBI TO SAT)
N	REQ2(CHG TO COMBI)
O	SOURCE CHANGE
P	EARTH(CASE)



AUTO-CHANGER (TK-16)

No.	Description
1	EARTH(CASE)
2	ACC
3	N.C
4	BACK UP
5	N.C
6	ILLUMI
7	N.C
8	RXD(COMBI TO CHG)
9	TXD(CHG TO COMBI)
10	SIGNAL EARTH
11	REQ(CHG TO COMBI)
12	DATA EARTH
13	CHG RCH(-)
14	CHG RCH(+)
15	CHG LCH(-)
16	CHG LCH(+)